Application No.   Applicanties		Application Ale	A == 1!= c = 4/= \
Notice of Allowability  Examiner  Daniel B. Ko  2189 The MAILING DATE of this communication appears on the cover sheet with the coverspondence address—All claims being allowable, PROSECUTION ON THE MERTS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MFEP 1309.  1.		Application No.	Applicant(s)
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All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application fro included nervertils (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.  1. ☑ This communication is responsive to 2/9/2004.  2. ☑ The allowed claim(s) is/are 1-22.  3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No.  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  4. ☐ Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. ☐ A SUBSTITUTE OATH OR DECLARATION was the submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1) ☐ hereto or 2) ☐ to Paper No./Mail Date		Daniel B. Ko	2189
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U.S. Patent and Trademark Office	Daniel har 6/5/06		
	U.S. Patent and Trademark Office	Notice of Allowability	Part of Paper No./Mail Date 2006060

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## **DETAILED ACTION**

## Reasons for Allowance

The following is an examiner's statement of reasons for allowance: Prior art of Ohuchi (U.S. Patent 5,394,535) teaches a memory control circuit determines an optimum memory access mode and performs the optimum memory access mode without requiring additional data form the data processing unit. Ohuchi does not teach an apparatus for processing data, said apparatus comprising: a memory operable to store data values; and memory accessing logic responsive to memory access instructions to access data values stored within said memory; wherein said memory has a first memory address region and a second memory address region; said memory accessing logic is operable, in response to a memory access instruction specifying a first memory access to a first data value within said first memory address region, to convert said first memory access to a second memory access, said second memory access being to a second data value within said second memory address region; when said first memory access is a memory write, said second memory access is a readmodify-write memory access in which Y bits within said first data value are written to Y bits within said second data value with those bits within said second data value other than said Y bits being unaltered; and when said first memory access is a memory read, said second memory access is a masked read memory access in which Y bits of said first data value are read from Y bits of said second data value and those bits within said first data value other than said Y bits are set to a predetermined value independent of bits of said second data value other than said Y bits.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel B. Ko whose telephone number is 571-272-8194. The examiner can normally be reached on 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Reginald G. Bragdon can be reached on 571-272-4204. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel Ko AU 2189

> REGINALD G. BRAGDON PINMARY EXAMINER